

Underground Coal Mines

Monitoring Checklist



Greenhouse Gas Reporting Program

What Must Be Monitored for Each Underground Coal Mine Meeting the MSHA Sampling Threshold?

Each underground coal mine meeting the MSHA threshold must monitor these parameters for their mine ventilation air ...

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|---|--|
| <input type="checkbox"/> Volumetric flow rate of gas for each ventilation monitoring point (scfm) (Quarterly or more frequent) | <input type="checkbox"/> Pressure (atm) values at the time, location, and conditions for which measurements are made. (Quarterly or more frequent) |
| <input type="checkbox"/> CH ₄ concentration (%) for each ventilation monitoring point (Quarterly or more frequent) | <input type="checkbox"/> Moisture content (%) at the time, location, and conditions for which measurements are made. (Quarterly or more frequent) |
| <input type="checkbox"/> Temperatures (°R) values at the time, location, and conditions for which measurements are made. (Quarterly or more frequent) | |

Each underground coal mine using a degasification system (deployed before, during, or after mining operations) must also monitor these parameters...

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|--|---|
| <input type="checkbox"/> Volumetric flow of CH ₄ liberated from each degasification monitoring point (Weekly or more frequent) | <input type="checkbox"/> Pressure (atm) values at the time, location, and conditions for which measurements are made. (Weekly or more frequent) |
| <input type="checkbox"/> CH ₄ concentration from each degasification monitoring point (%) (Weekly or more frequent) | <input type="checkbox"/> Moisture content (%) at the time, location, and conditions for which measurements are made. (Weekly or more frequent) |
| <input type="checkbox"/> Temperatures (°R) values at the time, location, and conditions for which measurements are made. (Weekly or more frequent) | |

Each underground coal mine where CH₄ is destroyed or transported offsite for destruction must monitor ...

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|---|---|
| <input type="checkbox"/> Volumetric flow of gas at each destruction device or point of offsite transport for destruction (continuous) | <input type="checkbox"/> Pressure (atm) values of gas at each destruction device or point of offsite transport for destruction (continuous) |
| <input type="checkbox"/> CH ₄ concentration of gas at each destruction device or point of offsite transport for destruction (continuous) | <input type="checkbox"/> Moisture content (%) of gas at each destruction device or point of offsite transport for destruction (continuous) |
| <input type="checkbox"/> Temperatures (°R) values of gas at each destruction device or point of offsite transport for destruction (continuous) | |

See also the information sheet for Underground coal mines at <http://www.epa.gov/climatechange/emissions/subpart/ff.html>